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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Richard Levenson  
Serial No. : 10/669,101  
Filed : September 23, 2003  
Title : SPECTRAL IMAGING OF DEEP TISSUE

Art Unit : 3737  
Examiner : Unknown

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 8-16-05

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12259-034001	Application No. 10/669,101
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Richard Levenson	
		Filing Date September 23, 2003	Group Art Unit 3737

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AA	P.S. Andersson et al. "Flourescence Endoscopy Instrumentation for Improved Tissue Characterization." Med. Phys. 14 (4) Jul/Aug 1987. 633-636.
	AB	S. Folli et al. "Immunophotodiagnosis of Colon Carcinomas in Patients Injected with Flouresceinated Chimerica Antibodies Against Carcinoembryonic Antigen." Institute of Biochemistry, University of Lausanne, Switzerland. 7973-7977.
	AC	K.J. Brodbeck et al. "A System for Real Time Flourescence Imaging in Color for Tumor Diagnosis." Med. Phys. 14 (4) Jul/Aug 1987 637-639.
	AD	David Gillis et al. "Using Endmembers as a Coordinate System in Hyperspectral Imagery." Naval Research Laboratory, Washington, DC. 1-9.
	AE	Andrew A. Green et al. "A Transformation for Ordering Multispectral Data in Terms of Image Quality with Implications for Noise Removal." IEEE Transactions of Geoscience and Remote Sensing Vol. 26, No. 1 January 1988. 65-74.
	AF	Klaus B. Hilger et al. "MADCAM - The Multispectral Active Decomposition Camera." IMM, Informatics and Mathematical Modelling, Technical University of Denmark. 1-7.
	AG	Nirmal Keshava et al. "Spectral Unmixing." IEEE Signal Processing Magazine. January 2002. 44-57.
	AH	David Landgrebe. "Hyperspectral Image Data Analysis." IEEE Signal Processing Magazine, January 2002. 17-28.
	AI	David Landgrebe. "Information Extraction Principles and Methods for Mutispectral and Hyperspectral Image Data." School of Electrical and Computer Engineering. (1998) 1-29.
	AJ	Dimitris Manolakis et al. "Detection Algorithms for Hyperspectral Imaging Applications." IEE Signal Processing Magazine. January 2002. 29-43.
	AK	Jose M.P. Nascimento. "Vertex Component Analysis: A Fast Algorithm to Unmix Hyperspectral Data." 1-23.
	AL	R.A Neville et al. "Automatic Endmember Extraction from Hyperspectral Data for Mineral Exploration." Fourth International Airborne Remote Sensing Conference and Exhibition June 1999. 1-8.
	AM	Antonio Plaza et al. "A Quantitative and Comparitive Analysis of Endmember Extraction Algorithms from Hyperspectral Data." IEEE Transactions on Geoscience and Remote Sensing Vol. 42 No. 3, March 2004. 650-663.
	AN	Antonio Plaza et al. "Spatial/Spectral Endmember Extraction by Multidimensional Mophological Operations." IEEE Transactions on Geoscience and Remote Sensing Vol. 40, No. 9 September 2002. 2025-2041.
	AO	F.P. Seelos IV et al. "Bounded Variable Least Squares - Application of a Constrained Optimization Algorithm to the Analysis of TES Emmisivity Spectra." Lunar and Planetary Sciences XXXIV (2003) 56-69.
	AP	David W. J. Stein et al. "Anomaly Detection from Hyperspectral Imagery." IEEE Signal Processing Magazine. January 2002. 58-69
	AQ	Tamara Troy et al. "Quantitative Comparison of the Sensitivity of Detection of Flourescent and Bioluminescent Reporters in Animal Models." Molecular Imaging Vol. 5 No. 1, January 2004. 9-23.

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AR	Stefan Wild et al. "Motivating Non-Negative Matrix Factorizations." Department of Applied Mathematics, University of Colorado, 1-11.
	AS	Michael E. Winter. "Fast Autonomous Spectral Endmember Determination in Hyperspectral Data." 13 <sup>th</sup> International Conference on Applied Geologic Remote Sensing, March 1-3 1999. 1-16.
	AT	Michael E. Winter. "N-FINDR: An Algorithm for Fast Autonomous Spectral End-Member Determination in Hyperspectral Data." Department of Earth Sciences. 1-8.

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